32.5 [page 872]

(Påminner om uppgift 32.1 igen.)

a) (32-16) $B = \frac{\mu_0 i_d}{2\pi R^2} r = \frac{\mu_0 (J_d \cdot \pi R^2)}{2\pi R^2} r = \frac{\mu_0 J_d}{2} r$

$= \frac{4\pi \cdot 10^{-7} \cdot 6{,}00 \cdot 0{,}0200}{2} \simeq 7.54 \cdot 10^{-8}\ T$

b) (32-17) $B = \frac{\mu_0 i_d}{2\pi r} = \frac{\mu_0 (J_d \cdot \pi R^2)}{2\pi r} = \frac{\mu_0 J_d R^2}{2r}$

$= \frac{4\pi \cdot 10^{-7} \cdot 6{,}00 \cdot 0{,}0400^2}{2 \cdot 0{,}0500} \simeq 1.21 \cdot 10^{-7}\ T$